

Ag. Waste Application and Excavated Ponds
Brule and Buffalo Counties,
South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ar: Artesian-----	80	Very limited Restricted permeability Depth to saturated zone Runoff limitation Salinity	1.00 0.95 0.40 0.01	Very limited Slow refill Cutbanks cave Deep to water Salty water	1.00 0.10 0.02 0.01
BeB: Beadle-----	80	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BeC: Beadle-----	75	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BgB: Beadle-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Jerauld-----	25	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Deep to water	1.00
BmF: Betts-----	45	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Java-----	30	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Bn: Bon-----	80	Not limited		Very limited Deep to water	1.00
Bo: Bon-----	80	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
Bu: Bullcreek-----	82	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Ca: Carter-----	75	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Deep to water	1.00
Cp: Carter-----	60	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 0.82 0.40 0.01	Very limited Deep to water	1.00
Promise-----	30	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Cr: Cavo-----	60	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Jerauld-----	20	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Deep to water	1.00
CsD: Chantier-----	60	Very limited Restricted permeability Depth to bedrock Droughty Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Sansarc-----	20	Very limited Restricted permeability Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 1.00 0.40 0.04	Very limited Deep to water	1.00
DaA: Degrey-----	35	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Eakin-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Jerauld-----	15	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
DeD: Delmont-----	80	Very limited Depth to dense layer Filtering capacity Slope Droughty	1.00 1.00 0.37 0.30	Very limited Deep to water	1.00
Do: Dorna-----	80	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Du: Durrstein-----	80	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
EaA: Eakin-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Degrey-----	30	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Eg: Egas-----	80	Very limited Restricted permeability Depth to saturated zone Salinity Flooding Runoff limitation	1.00 1.00 0.78 0.60 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.78 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Ew: Egas Variant-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation Salinity	1.00 1.00 1.00 0.40 0.06	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
Fa: Farmsworth-----	75	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.95 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave Deep to water	1.00 0.50 0.10 0.02
GeE: Gettys-----	75	Very limited Slope Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
GeF: Gettys-----	75	Very limited Slope Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
GhA: Glenham-----	75	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GkB: Glenham-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Java-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HgB: Highmore-----	50	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Java-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HgC: Highmore-----	40	Not limited		Very limited Deep to water	1.00
Java-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HmA: Highmore-----	50	Not limited		Very limited Deep to water	1.00
Mobridge-----	25	Not limited		Very limited Deep to water	1.00
HoB: Hurley-----	75	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 1.00 0.50 0.42	Very limited Deep to water	1.00
HsA: Hurley-----	60	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 1.00 0.50 0.42	Very limited Deep to water	1.00
Slickspots, Dry-----	20	Not rated		Not rated	
JbE: Java-----	50	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Betts-----	30	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
JgC: Java-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Glenham-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ko: Kolls-----	95	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
La: Lane-----	75	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Lf: Lane-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Farmsworth-----	30	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.95 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave Deep to water	1.00 0.50 0.10 0.02
LoA: Lowry-----	90	Not limited		Very limited Deep to water	1.00
LoB: Lowry-----	90	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
LvA: Lowry Variant-----	100	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
LvB: Lowry Variant-----	100	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
M-W: Miscellaneous Water-	100	Not rated		Not rated	
MaB: Mcclure-----	75	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
MaC: Mcclure-----	80	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
MbA: Millboro-----	99	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
MbB: Millboro-----	100	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
MbC: Millboro-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
MoA: Mobridge-----	75	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Mp: Mobridge-----	60	Not limited		Very limited Deep to water	1.00
Plankinton-----	25	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Ponding	1.00	Salty water	0.01
		Runoff limitation	0.40		
Oa: Oahe-----	80	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
OdB: Oahe-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	35	Very limited Depth to dense layer	1.00	Very limited Deep to water	1.00
		Filtering capacity	1.00		
		Droughty	0.30		
OeF: Okaton-----	75	Very limited Slope	1.00	Very limited Deep to water	1.00
		Restricted permeability	1.00		
		Depth to bedrock	1.00		
		Droughty	1.00		
		Cobble content	1.00		
OkB: Oko-----	75	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
		Runoff limitation	0.40		
		Salinity	0.01		

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		Rating class and limiting features	Value	Rating class and limiting features	Value
OmB: Opal-----	90	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.96 0.42 0.40 0.02	Very limited Deep to water	1.00
OmC: Opal-----	75	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Slope	1.00 0.96 0.42 0.40 0.04	Very limited Deep to water	1.00
OpB: Opal-----	90	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Salinity	1.00 0.98 0.42 0.40 0.06	Very limited Deep to water	1.00
Or: Orthents, Loamy-----	75	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
OtA: Orton-----	80	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
OtB: Orton-----	80	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
OwE: Orton-----	45	Very limited Slope Filtering capacity	1.00 1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Schamber-----	35	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.96 0.45	Very limited Deep to water	1.00
Pa: Plankinton-----	90	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
PrA: Promise-----	75	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
PrB: Promise-----	85	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
ReA: Ree-----	75	Not limited		Very limited Deep to water	1.00
ReB: Ree-----	75	Not limited		Very limited Deep to water	1.00
RsF: Rock Outcrop, Soft--	45	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Sansarc-----	40	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
SaE: Sansarc-----	45	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Opal-----	30	Very limited Restricted permeability Slope Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.96 0.42 0.40	Very limited Deep to water	1.00
SaF: Sansarc-----	55	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Opal-----	20	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.96 0.42 0.40	Very limited Deep to water	1.00
ScE: Schamber-----	75	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.96 0.45	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
SdF: Sully-----	90	Very limited Slope	1.00	Very limited Deep to water	1.00
SoC: Sully-----	60	Not limited		Very limited Deep to water	1.00
Lowry-----	30	Not limited		Very limited Deep to water	1.00
SoE: Sully-----	55	Very limited Slope	1.00	Very limited Deep to water	1.00
Lowry-----	25	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
SsE: Sully-----	60	Very limited Slope	1.00	Very limited Deep to water	1.00
Schamber-----	20	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.96 0.45	Very limited Deep to water	1.00
UaA: Uly-----	85	Not limited		Very limited Deep to water	1.00
UaB: Uly-----	85	Not limited		Very limited Deep to water	1.00
UaC: Uly-----	85	Not limited		Very limited Deep to water	1.00
Us: Orthents, Loamy-----	80	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Orthents, Shaly-----	20	Not rated		Not rated	
W: Water-----	100	Not rated		Not rated	
Wd: Wendte-----	80	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
We: Wendte-----	75	Very limited Restricted permeability Flooding Runoff limitation	1.00 0.60 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Wo: Worthing-----	99	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01
Wp: Worthing-----	100	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01

